



Sheet 1 of 2

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>		Docket No.:	Application No.		
		50642/270979	10/084,291		
		Applicant: C. Carson			
Filing Date: February 27, 2002		Group Art Unit 3764			
U.S. PATENT DOCUMENTS					
Examiner Initial		Document Number	Date	Name	Class
		5,383,454	01/24/95	Bucholz	
		5,389,101	02/14/95	Heilbrun et al.	
		5,603,318	02/18/97	Heilbrun et al.	
		5,643,268	07/01/97	Vilsmeier et al.	
		5,682,886	11/04/97	Delp et al.	
		5,702,406	12/30/97	Vilsmeier et al.	
		5,748,767	05/05/98	Raab	
		5,769,861	06/23/98	Vilsmeier	
		5,772,594	06/30/98	Berrick	
		5,792,147	08/11/98	Evans et al.	
		5,799,055	08/25/98	Peshkin et al.	
		5,807,252	09/05/98	Hassfeld et al.	
		5,836,954	11/17/98	Heilbrun et al.	
		5,871,018	02/16/99	Delp et al.	
		5,871,445	02/16/99	Bucholz	
		5,880,976	03/09/99	DiGioia III et al.	
		6,002,859	12/14/99	DiGioia III et al.	
		6,016,606	01/25/00	Oliver et al.	
		6,069,932	05/30/00	Peshkin et al.	
		6,083,163	07/04/00	Wegner et al.	
		6,146,390	11/14/00	Heilbrun et al.	
		6,165,181	12/26/00	Heilbrun et al.	
		6,190,320 B1	02/20/01	Lelong	
		6,198,794 B1	03/06/01	Peshkin et al.	
		6,226,548 B1	05/01/01	Foley et al.	
		6,235,038 B1	05/22/01	Hunter et al.	
		6,236,875 B1	05/22/01	Bucholz et al.	
		6,249,581 B1	06/19/01	Kok	
		6,285,902 B1	09/04/01	Kienzle, III et al.	
		6,332,891 B1	12/25/01	Himes	
		6,344,853 B1	02/05/02	Knight	
		6,347,240 B1	02/12/02	Foley et al.	
		6,351,659 B1	02/26/02	Vilsmeier	
<i>[Handwritten signature]</i>		Examiner: <i>[Signature]</i> Date Considered: <i>10/05</i>			

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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Form PTO-1449

INFORMATION DISCLOSURE
CITATION
IN AN APPLICATION
(Use several sheets if necessary)

Docket No.:	50642/270979	Application No.	10/084,290
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Applicant:	C. Carson
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Filing Date:	February 27, 2002
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~~NON-U.S. PATENT DOCUMENTS~~

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation
	WO 97/23172	07/03/97	PCT			
	WO 99/60939	12/02/99	PCT			
	WO 00/47103	08/17/00	PCT			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	DiGioia et al., Computer Assisted Orthopedic Surgery, Clinical Orthopaedics, September 1998, Volume 354, pp. 8-16.
RU	Ellis et al., "A surgical planning and guidance system for high tibial osteotomy," Journal of Computer-Assisted Surgery Vol. 4(5) pp. 264-274, www.cs.queensu.ca/home/ellis/research/pdf/1999-jcas.pdf.
	Foley et al., "Percutaneous pedicle screw fixation of the lumbar spine," Neurosurg. Focus, Vol. 10(4), pp. 1-8 (2001).
	Keifer et al., Computer Aided Knee Arthroplasty Versus Conventional Technique – First Results, First Annual Meeting of the International Society for Computer Assisted Orthopedic Surgery (Davos, Switzerland, Feb. 8-10, 2001).
	Kunz et al., Development and Verification of a Non-CT Based Total Knee Arthroplasty System for the LCS Prosthesis, First Annual Meeting of the International Society for Computer Assisted Orthopedic Surgery (Davos, Switzerland, Feb. 8-10, 2001).
RU	Munoz et al., "Computer assisted planning of high tibial osteotomy for the treatment of knee osteoarthritis," www.utc.fr/esb/esb98/abs.htm/570.html
	Picard et al., Kneenav.TKR: Concept and Clinical Application (Computer Assisted Orthopedic Surgery USA 2000 Meeting, Pittsburgh, PA., June 15-17, 2000).
	Saragaglia et al., Computer Assisted Total Knee Arthroplasty: Comparison with a Conventional Procedure, First Annual Meeting of the International Society for Computer Assisted Orthopedic Surgery (Davos, Switzerland, Feb. 8-10, 2001).
	Simon et al., The Fundamentals of Virtual Fluoroscopy, Medtronic Surgical Navigation Technologies, Medtronic, pp. 57-66 (Computer Assisted Orthopedic Surgery USA 2000 Meeting, Pittsburgh, PA, June 15-17, 2000).
	Tenbusch et al., First Results Using the Robodoc System for Total Knee Replacement, First Annual Meeting of the International Society for Computer Assisted Orthopedic Surgery (Davos/Switzerland, Feb. 8-10, 2001).

Examiner: <i>Ruth Ladd</i>	Date Considered: 10/15
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.



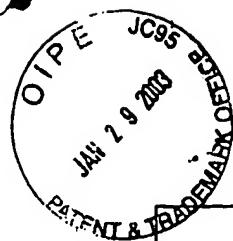
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Sheet 1 of 1



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Sheet 1 of 12

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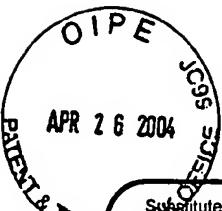


Sheet 1 of 12

Examiner:

Date Considered:

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PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 1

Complete if Known

Application Number	10/084,291
Date Filed:	February 27, 2002
First Named Inventor	Christopher P. CARSON
Group Art Unit	3737
Examiner Name	Pass, Barry
Attorney Docket Number	50642/270979

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
RL		4,952,213	08/28/1990	Bowman, et al.	
RL		5,190,547	03/02/1993	Barber, Jr., et al.	
RL		5,395,376	03/07/1995	Caspari, et al.	
RL		6,200,316 B1	03/13/2001	Zwirkoski, et al.	
RL		6,558,421	05/06/2003	Fell, et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
RL		WO 01/91647 A1	12/06/2001	PCT		Abstract
RL		DE 100 31 887 A1	01/17/2002	Germany		Abstract

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²

Examiner Signature

Date Considered

10/6/05

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ADDITIONAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 12

Complete If Known

<i>Application Number</i>	10/084,291
<i>Filing Date</i>	02/27/2002
<i>First Named Inventor</i>	Christopher P. Carson
<i>Art Unit</i>	3737
<i>Examiner Name</i>	SMITH, Ruth S.
<i>Attorney Docket Number</i>	50642/270979

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (If known)			
<i>RY</i>	1.	US2001/0001120A1	05/10/2001	Masini	
	2.	US2001/0014772A1	08/16/2001	Lampotang, <i>et al.</i>	
	3.	US2001/0016745A1	08/23/2001	Bullivant, <i>et al.</i>	
	4.	US2001/0039421 A1	11/08/2001	Heilbrun, <i>et al.</i>	
	5.	US2002/0002330 A1	01/03/2002	Vilsmeier	
	6.	US2002/0002365A1	01/03/2002	Lechot	
	7.	US2002/0016540 A1	02/07/2002	Mikus, <i>et al.</i>	
	8.	US2002/0029041 A1	03/07/2002	Hover, <i>et al.</i>	
	9.	US2002/0038085A1	03/28/2002	Immerz	
	10.	US2002/0052606 A1	05/02/2002	Bonutti	
	11.	US2002/0065461A1	05/30/2002	Cosman	
	12.	US2002/0068942 A1	06/06/2002	Neubauer, <i>et al.</i>	
	13.	US2002/0072748 A1	06/13/2002	Robioneck	
	14.	US2002/0077540A1	06/20/2002	Kienzle, III	
	15.	US2002/077533 A1	06/20/2002	Bieger, <i>et al.</i>	
	16.	US2002/0085681 A1	07/04/2002	Jensen	
	17.	US2002/0087101A1	07/04/2002	Barrick, <i>et al.</i>	
	18.	US2002/0095081 A1	07/18/2002	Vilsmeier	
	19.	US2002/0107518 A1	08/08/2002	Neubauer, <i>et al.</i>	
	20.	US2002/011594A1	01/31/2002	DeSouza	
	21.	US2002/0133161 A1	09/19/2002	Axelson, <i>et al.</i>	
	22.	US2002/0133175 A1	09/19/2002	Carson	
	23.	US2002/0147455	10/10/2002	Carson	
	24.	US2002/0151898 A1	10/17/2002	Sohngen, <i>et al.</i>	
	25.	US2002/0156371A1	10/24/2002	Hedlund, <i>et al.</i>	
	26.	US2002/0156479A1	10/24/2002	Schulzki, <i>et al.</i>	
	27.	US2002/0188194A1	12/12/2002	Cosman	
	28.	US2002/0193800 A1	12/19/2002	Kienzle, III, <i>et al.</i>	
	29.	US2002/0198531 A1	12/26/2002	Millard, <i>et al.</i>	
	30.	US2002/0198448A1	12/26/2002	Zuk, <i>et al.</i>	
	31.	US2003/0069591A1	04/10/2003	Carson	
	32.	US2003/0018338A1	01/23/2003	Axelson, Jr., <i>et al.</i>	
	33.	US2003/0045883A1	03/06/2003	Chow, <i>et al.</i>	
	34.	US2003/0153829 A1	08/14/2003	Sarin, <i>et al.</i>	
	35.	US2003/0153859	08/14/2003	Hinshon	
	36.	US2003/0153978A1	08/14/2003	Whiteside	
	37.	US2003/0164172 A1	09/04/2003	Chumas, <i>et al.</i>	

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Examiner Signature	<i>Ruth S. Carson</i>	Date Considered	10/10/05
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**ADDITIONAL
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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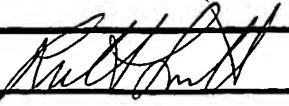
Sheet 2 of 12

Complete if Known

<i>Application Number</i>	10/084,291
<i>Filing Date</i>	02/27/2002
<i>First Named Inventor</i>	Christopher P. Carson
<i>Art Unit</i>	3737
<i>Examiner Name</i>	SMITH, Ruth S.
<i>Attorney Docket Number</i>	50642/270979

RU	38.	US2003/0181918 A1	09/25/2003	Smothers, et al.	
	39.	US2003/0187351 A1	10/02/2003	Franck, et al.	
	40.	US2003/0187452A1	10/02/2003	Smith et al.	
	41.	US2003/192557 A1	10/16/2003	Krag, et al.	
	42.	US2004/0019382	01/29/2004	Amirouche, et al.	
	43.	US2004/0260290	12/23/2004	Zander et al.	
	44.	US2005/0075632 A1	04/07/2005	Russell, et al.	
	45.	US2005/0085822 A1	04/21/2005	Thornberry, et al.	
	46.	1,076,971	10/28/1913	Geiger	
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	48.	2,092,869	09/14/1937	Baum	
	49.	3,412,733	11/26/1968	Ross	
	50.	3,457,922	07/29/1969	Ray	
	51.	3,702,611	11/14/1972	Fishbein	
	52.	4,305,394	12/15/1981	Bertuch, Jr.	
	53.	4,323,080	04/06/1982	Melharty	
	54.	4,421,112	12/20/1983	Mains, et al.	
	55.	4,457,307	07/03/1984	Stillwell	
	56.	4,483,554	11/20/1984	Ernst	
	57.	4,524,766	06/25/1985	Petersen	
	58.	4,534,364	08/13/1985	Lamoreux	
	59.	4,566,448	01/28/1986	Rohr, Jr.	
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	61.	4,567,886	02/04/1986	Petersen	
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	64.	4,722,056	01/26/1988	Roberts, et al.	
	65.	4,759,350	07/26/1988	Dunn, et al.	
	66.	4,802,468	02/07/1989	Powlan	
	67.	4,803,976	02/14/1989	Frigg, et al.	
	68.	4,875,475	10/24/1989	Comte, et al.	
	69.	4,892,093	01/09/1990	Zarnowski, et al.	
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	71.	4,964,862	10/23/1990	Arms	
	72.	5,002,545	03/26/1991	Whiteside, et al.	
	73.	5,037,423	08/06/1991	Kenna	
	74.	5,053,039	10/01/1991	Hofmann, et al.	
	75.	5,078,719	01/07/1992	Schreiber	
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	77.	5,116,338	05/26/1992	Poggie, et al.	
	78.	5,122,144	06/16/1992	Bert, et al.	

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Examiner Signature		Date Considered	10/05
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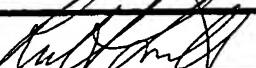
12

Complete if Known

<i>Application Number</i>	10/084,291
<i>Filing Date</i>	02/27/2002
<i>First Named Inventor</i>	Christopher P. Carson
<i>Art Unit</i>	3737
<i>Examiner Name</i>	SMITH, Ruth S.
<i>Attorney Docket Number</i>	50642/270979

79.	5,129,909	07/14/1992	Sutherland
80.	5,213,312	05/25/1993	MacDonald
81.	5,217,499	06/08/1993	Shelley
82.	5,230,338	07/27/1993	Allen, et al.
83.	5,246,444	09/21/1993	Schreiber
84.	5,254,119	10/19/1993	Schreiber
85.	5,289,826	03/01/1994	Kovacevic
86.	5,360,016	11/01/1994	Kovacevic
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88.	5,375,588	12/27/1994	Yoon
89.	5,379,133	01/03/1995	Kirk
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91.	5,389,101	02/14/1995	Heilbrun, et al.
92.	5,423,828	06/13/1995	Benson
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94.	5,449,360	09/12/1995	Schreiber
95.	5,462,548	10/31/1995	Pappas, et al.
96.	5,462,549	10/31/1995	Glock
97.	5,468,244	11/21/1995	Attfield, et al.
98.	5,470,354	11/28/1995	Hershberger, et al.
99.	5,474,559	12/12/1995	Bertin, et al.
100.	5,486,178	01/23/1996	Hodge
101.	5,490,854	02/13/1996	Fisher, et al.
102.	5,491,510	02/13/1996	Gove
103.	5,507,824	04/16/1996	Lennox
104.	5,514,139	05/07/1996	Goldstein, et al.
105.	5,517,990	05/21/1996	Kalfas, et al.
106.	5,540,691	07/30/1996	Elmstrom, et al.
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109.	5,569,260	10/29/1996	Petersen
110.	5,597,379	01/28/1997	Haines, et al.
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112.	5,603,318	02/18/1997	Heilbrun, et al.
113.	5,613,969	03/25/1997	Jenkins, Jr.
114.	5,643,268	07/01/1997	Vilsmeier, et al.
115.	5,643,272	07/01/1997	Haines, et al.
116.	5,658,290	08/19/1997	Lechot
117.	5,669,914	09/23/1997	Eckhoff
118.	5,682,886	11/04/1997	Delp, et al.
119.	5,695,501	12/09/1997	Carol, et al.

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Examiner Signature		Date Considered	10/05
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**ADDITIONAL
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Sheet 4 of 12

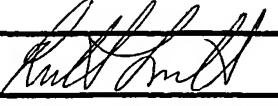
Complete if Known

<i>Application Number</i>	10/084,291
<i>Filing Date</i>	02/27/2002
<i>First Named Inventor</i>	Christopher P. Carson
<i>Art Unit</i>	3737
<i>Examiner Name</i>	SMITH, Ruth S.

Attorney Docket Number 50642/270979

120.	5,702,406	12/30/1997	Vilsmeier, et al.
121.	5,707,370	01/13/1998	Berki, et al.
122.	5,709,689	01/20/1998	Ferrante, et al.
123.	5,715,836	02/10/1998	Kliegis, et al.
124.	5,716,361	02/10/1998	Masini
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126.	5,722,978	03/03/1998	Jenkins, Jr.
127.	5,733,292	05/31/1998	Gustilo, et al.
128.	5,735,904	04/07/1998	Pappas
129.	5,743,915	04/28/1998	Bertin, et al.
130.	5,748,767	05/05/1998	Raab
131.	5,755,725	05/26/1998	Druais
132.	5,755,803	05/26/1998	Haines, et al.
133.	5,769,861	06/23/1998	Vilsmeier
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135.	5,772,594	06/30/1998	Barrick
136.	5,776,064	07/07/1998	Kalfas, et al.
137.	5,782,842	07/21/1998	Kloess, et al.
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139.	5,799,055	08/25/1998	Peshkin, et al.
140.	5,800,352	09/01/1998	Ferre, et al.
141.	5,800,438	09/01/1998	Tuke, et al.
142.	5,807,252	09/15/1998	Hassfeld, et al.
143.	5,810,827	09/22/1998	Haines, et al.
144.	5,810,841	09/22/1998	McNeirney, et al.
145.	5,817,097	10/06/1998	Howard, et al.
146.	5,836,954	11/17/1998	Heilbrun, et al.
147.	5,848,967	12/15/1998	Cosman
148.	5,850,836	12/22/1998	Steiger, et al.
149.	5,860,981	01/19/1999	Bertin, et al.
150.	5,865,809	02/02/1999	Moenning, et al.
151.	5,871,018	02/16/1999	Delp, et al.
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Examiner Signature		Date Considered	10/05
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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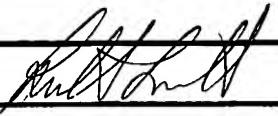
Sheet 5 of 12

Complete if Known

<i>Application Number</i>	10/084,291
<i>Filing Date</i>	02/27/2002
<i>First Named Inventor</i>	Christopher P. Carson
<i>Art Unit</i>	3737
<i>Examiner Name</i>	SMITH, Ruth S.
<i>Attorney Docket Number</i>	50642/270979

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Sheet 6 of 12

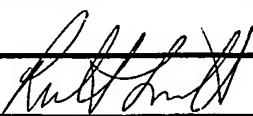
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<i>Examiner Name</i>	SMITH, Ruth S.

Attorney Docket Number 50642/270979

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Sheet 7 of 12

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Application Number	10/084,291
Filing Date	02/27/2002
First Named Inventor	Christopher P. Carson
Art Unit	3737
Examiner Name	SMITH, Ruth S.
Attorney Docket Number	50642/270979

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Sheet 8 of 12

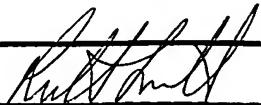
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<i>Application Number</i>	10/084,291
<i>Filing Date</i>	02/27/2002
<i>First Named Inventor</i>	Christopher P. Carson
<i>Art Unit</i>	3737
<i>Examiner Name</i>	SMITH, Ruth S.
<i>Attorney Docket Number</i>	50642/270979

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Examiner Initials*	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Country Code ² - Number ⁴	Kind Code ³ (if known)			
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1927451.v2

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ADDITIONAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		<i>Application Number</i>	10/084,291
		<i>Filing Date</i>	02/27/2002
		<i>First Named Inventor</i>	Christopher P. Carson
		<i>Art Unit</i>	3737
		<i>Examiner Name</i>	SMITH, Ruth S.
<i>Attorney Docket Number</i>	50642/270979		
Sheet	9	of	12

1927451.v2

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ADDITIONAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 10 of 12

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<i>Application Number</i>	10/084,291
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<i>Attorney Docket Number</i>	50642/270979

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
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Examiner Signature	<i>Ruth S. Smith</i>	Date Considered	10/05
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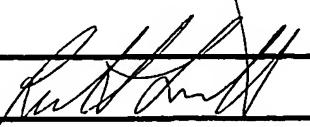
Sheet 11 of 12

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<i>First Named Inventor</i>	Christopher P. Carson
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<i>Attorney Docket Number</i>	50642/270979

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Sheet 12 of 12

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<i>Attorney Docket Number</i>	50642/270979

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<i>No DTY</i>	366.	Smith & Nephew First Choice in Orthopaedics Brochure Entitled "ACHIEVE Computer Assisted Surgery Trauma Applications The Orbiter Base Station & Satellite Surgical Platform," 18 pages (undated)	
	367.	Medtronic Surgical Navigation Technologies SNT VERTEK photograph, one page (undated)	
	368.	Medtronic Surgical Navigation Technologies System Components photograph VERTEK PLATFORM, one page (undated)	
	369.	Medtronic Surgical Navigation Technologies "Overview Image-Guided Surgery An Advanced Solution to Traditional Surgery," two pages (undated)	
	370.	BONECRAFT CARNEGIE MELLON COMPUTER-AIDED BONE DEFORMITY CORRECTION Brochure, pp 1-5 (undated)	

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Examiner Signature	<i>Ruth S. Smith</i>	Date Considered	10/05
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